



**Gladiator Technologies, Inc.**



**High Performance MEMS Inertial Systems & Sensors**

**BESTECH**

*Sensors & Instrumentation*

**Corporate Profile**

**QMS & CERTS:**

Global Supplier to Tier 1 OEM's, Governments and Laboratories

AS9100C QMS  
ISO9001:2008

DUNS#  
610945284

Cage Code 47L11

CCR Registered

JCP Certified ITAR

Registered

**PRODUCTS:**

Low Cost to Tactical Grade  
High Performance

Gyros

Accelerometers

IMU

Vertical Gyros

AHRS

VG/GPS

G PS/AH RS

I N S/G PS

Custom Sensors & Systems

**KEY FEATURES:**

Ultra Low Noise

Low Bias

Low Power

Small Size

Light Weight

Full Temperature Compensation

**Designer/Mfg. of the World's Highest Performance MEMS Inertial Systems**

- USA, German, French & Italian Ownership
- Extensive Experience in Both Inertial & Tactical Grade Performance Inertial Systems
- Founded in 2005 by Former Honeywell, L-3 & Systron Donner Engineers/Executives



**Applications**

- Platform & Antenna Stabilization
- EO/IR/Camera Stabilization
- Flight Control & Flight Testing
- Guidance, Navigation & Control
- Telemetry & Instrumentation

**Complete Family of MEMS Inertial Sensors, Systems and Integrated GPS**

- **Ultra Low Noise**, Bias & Power
- Gyros, Accelerometers, IMU, VG, AHRS, VG/GPS, GPS/AHRS, INS/GPS
- Low Cost to High Performance
- Common Messaging Protocols
- Export Classification: Commerce ECCN7A994 for Most Products

**High Volume Production**

- AS9100C & ISO9001:2008 QMS
- Comprehensive ERP System
- Bar Code Labor Costing & Mfg. Orders
- Fully Automated Test & Calibration
- Senior Test Technicians & Assemblers with 20+ Years Industry Experience
- Lean Manufacturing & Six Sigma

**State-of-the-Art Design Tools**

- Finite Element Analysis (FEA) ANSYS
- Electrical, Mechanical, Software, Kalman Filtering and INS/GPS Design
- Built-in Vibration Isolation Systems
- Rapid Prototyping & Fables

**Gladiator Technologies Gyro and Accelerometer Products**  
Export Classification: Commerce ECCN7A994

Product Family	Analog Output	Description	ARW Noise	Unmodeled In-Run Bias
<i>In Development</i> G150Z	Analog	Ultra Low Noise	0.0015"/sec/√Hz	2"/hour
G200	Analog	Dual Axis Gyro	0.002"/sec/√Hz	5"/hour
G100Z	Analog	Low Noise	0.003"/sec/√Hz	8"/hour
G50Z	Analog	Standard	0.006"/sec/√Hz	15"/hour
A40	Analog	Standard	0.08mg/√Hz	0.25mg
A45	Analog	High-G	0.2mg/√Hz	1mg

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**Distributor of Gladiator Technologies, Inc.**



**Gladiator Technologies, Inc.**



High Performance MEMS Inertial Systems & Sensors

**BESTECH**

Sensors & Instrumentation

**Product Models, Key Performances & Features**

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**PRODUCTS:**

Low Cost to Tactical Grade High Performance

Gyros

Accelerometers

IMU

Vertical Gyros

AHRS

VG/GPS

G PS/AH RS

I N S/G PS

Custom Sensors & Systems

**KEY FEATURES:**

Ultra Low Noise

Low Bias

Low Power

Small Size

Light Weight

Full Temperature Compensation

- Gyro Noise as Low as 0.0015°/sec/√Hz
- Gyro In-Run Bias as Low as 1.5°/hour
- Gyro Bias Over Temp as Low as 0.01°/sec

- Accel Noise as Low as 0.04mg/√Hz
- Accel In-Run Bias as Low as 0.02mg
- Accel Bias Over Temp as Low as 0.5mg

**Inertial System Products**

LandMark™ Inertial Systems and Product Models											
Export Classification: Commerce ECCN7A994											
Product Family		Digital Analog	Description	ARW Noise	In-Run Bias	IMU	VG	AHRS	VG/ GPS	GPS/ AHRS	INS/ GPS
LandMark™ 50		Digital	Ultra Low Noise	0.0015°/sec/√Hz	1°/hour	✓	✓	✓	✓	✓	✓
MRM50		Analog				✓					
LandMark™ 40		Digital	Very Low Noise	0.002°/sec/√Hz	5°/hour	✓	✓	✓	✓	✓	✓
MRM40		Analog				✓					
LandMark™ 30		Digital	High Performance	0.003°/sec/√Hz	8°/hour	✓	✓	✓	✓	✓	✓
MRM30		Analog				✓					
LandMark™ 21		Digital	Mid Perf. 1" Cube	0.004°/sec/√Hz	10°/hour	✓	✓	✓			
MRM21		Analog				✓					
LandMark™ 20		Digital	Mid Performance	0.01°/sec/√Hz	15°/hour	✓	✓	✓	✓	✓	
MRM20		Analog				✓					
LandMark™ 10		Digital	Economy Perf./Cost	0.014°/sec/√Hz	25°/hour	✓	✓	✓	✓	✓	
MRM10		Analog				✓					

**Inertial Systems Comparison**

LandMark™/MRM Product Family Inertial Performance Comparison							
Export Classification: Commerce ECCN7A994							
Rev. 02/21/2012							
PRODUCT FAMILY	LandMark™ (Digital) and MRM (Analog)						
	10	20	21	30	40	50	
SPECIFICATION	75°/sec & 2g Accel	75°/sec & 2g Accel	100°/sec & 6g Accel	100°/sec & 2g Accel	100°/sec & 2g Accel	100°/sec & 2g Accel	100°/sec & 2g Accel
Gyro In-Run Bias °/hour 1σ	25	15	10	8	5	1.2	
Accel In-Run Bias mg 1σ	0.1	0.02	0.1	0.02	0.02	0.02	
Gyro Bias Repeat Over Temp °/sec 1σ	0.1	0.05	0.05	0.03	0.03	0.015	
Accel Bias Repeat Over Temp mg 1σ	3.0	1.0	2.0	0.5	0.5	0.5	
Gyro Noise °/sec/√Hz 1σ	0.014	0.01	0.004	0.003	0.002	0.0015	
Gyro Noise °/hour 1σ	0.594	0.424	0.170	0.127	0.085	0.064	
Accel Noise mg/√Hz 1σ	0.07	0.05	0.25	0.04	0.04	0.04	
Accel Noise Meters/sec/√Hr 1σ	0.029	0.021	0.104	0.017	0.017	0.017	

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